

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917) FEBRUARY 1981

SECTION I

MANUFACTURER'S NAME KOPPERS CO., INC.		EMERGENCY TELEPHONE NO. 412-227-2000
ADDRESS (Number, Street, City, State, and ZIP Code) Pittsburgh, PA 15219		
CHEMICAL NAME AND SYNONYMS Polyvinyl Butural Phosphoric Acid		TRADE NAME AND SYNONYMS Metal Pretreatment Wash Primer
CHEMICAL FAMILY Polyvinyl Butural Phosphoric Acid	FORMULA Mil-C-8514A P-204-66/C-152-66 4:1 by vol.*	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS Zinc Chromate		.5Mg/M ³	BASE METAL		
CATALYST			ALLOYS		
VEHICLE Polyvinyl Butyral		N/A	METALLIC COATINGS		
SOLVENTS ** see below			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES Phosphoric Acid		1 Mg/M ³	OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
* This is a two component system, any mixture of Comp I and Comp II will have hazards of both components. Data supplied is based on mixture of both components.					
** N Butyl Alcohol					50PPM
Ethyl Alcohol					1000PPM

SECTION III - PHYSICAL DATA

Wt/Gal

BOILING POINT (°F.)		SPECIFIC GRAVITY (H ₂ O=1)	Comp I Comp II	7.5 lbs 7.7 lbs
VAPOR PRESSURE (mm Hg.)		PERCENT VOLATILE BY VOLUME (%)		90.5
VAPOR DENSITY (AIR=1)	Heavier	EVAPORATION RATE (N But Acet =1)		Moderately Fast
SOLUBILITY IN WATER	Moderately Miscible			
APPEARANCE AND ODOR Green colored liquid with alcohol odor.				

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	53 F TCC	FLAMMABLE LIMITS	LeI	UeI
EXTINGUISHING MEDIA Foam, dry chemical, water spray, fog or CO ₂ .				
SPECIAL FIRE FIGHTING PROCEDURES Use air supplied equipment for enclosed areas. Cool exposed containers with water.				
UNUSUAL FIRE AND EXPLOSION HAZARDS Keep away from heat, sparks and flame.				

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE 0.5 Mg/M³ of air for Zinc Chromate; 1 Mg/M³ of air for Phosphoric Acid; 50 PPM from solvent vapor.

EFFECTS OF OVEREXPOSURE

Irritation to eyes, nose and throat near or above 50 ppm from vapors. Higher concentrations cause drowsiness, dizziness, followed by coma. Dangerously high concentrations could cause death from explosion or from breathing.

EMERGENCY AND FIRST AID PROCEDURES

If inhaled remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. Call a physician. In case of skin contact, wash thoroughly with soap and water; for eyes, flush immediately with plenty of water for 15 minutes and call a physician. Wash contaminated clothing before reuse. If swallowed, CALL A PHYSICIAN IMMEDIATELY. DO NOT induce vomiting.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATABILITY (Materials to avoid)			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition (flames, electrical, static or frictional sparks; hot surfaces, etc.) Avoid breathing of vapors. Ventilate area. Contain and scoop up spill with non-sparking tools, rags, etc. Use inert absorbent materials on small spills or on residuals of large spills.

WASTE DISPOSAL METHOD

Dispose of in accordance with local applicable regulations.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Organic vapor canister where oxygen content is adequate and vapor concentration is less than 2% or use air supplied face masks.

VENTILATION	LOCAL EXHAUST	X	SPECIAL
	MECHANICAL (General)	X	OTHER
PROTECTIVE GLOVES	Rubber Gloves	EYE PROTECTION	Goggles
OTHER PROTECTIVE EQUIPMENT			

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep containers closed and upright to prevent leakage. Avoid flames, welding, smoking, sparks, open lights, etc. Avoid breathing of vapor or spray mist. Avoid eye and skin contact.

OTHER PRECAUTIONS

Maintain good personal hygiene. Do not use in confined areas, tank or pit without adequate ventilation.